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## HiFi Gibson Assembly (NEB)

According to the manufacturers protocol. Link:

<https://www.neb.com/protocols/2014/11/26/nebuilder-hifi-dna-assembly-reaction-protocol>

	Recommended Amount of Fragments Used for Assembly	
	2–3 Fragment Assembly	4–6 Fragment Assembly
DNA Ratio	vector:insert = 1:2	vector:insert = 1:1
Total Amount of Fragments	0.03–0.2 pmols	0.2–0.5 pmols
NEBuilder HiFi DNA Assembly Master Mix	10 µl	10 µl
Deionized H2O	10-X µl	10-X µl
Total Volume	20 µl	20 µl

Generally, 50-100 ng of vector was used.

Samples were incubated 15 minutes at 50°C, split in half and one half was incubated for another 45 minutes.

Subsequently, assemblies were transformed into chemically competent cells (1-5µL) or in electrocompetent cells (1 µL, diluted 10x or 5 µL, after purification to remove salts).

